CARL QUICK TUTORIAL V4.0

California Air Resources Board

July 2018

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Introduction

The Carl Moyer Program is a grant program that funds the incremental cost of cleaner-than-required engines, equipment, and other sources of air pollution. The program funds cost-effective projects that get early and/or extra emission reductions. The program is funded through a portion of the smog abatement fee included in the annual registration of newer vehicles and through a small fee on the sale of new tires. The program is statewide and administered by local air districts. It is governed by the Guidelines developed and adopted by the Air Resources Board (ARB) in consultation with the districts.

The Clean Air Reporting Log (CARL) is the on-line tracking tool for the Moyer program. CARL calculates emission reductions, cost-effectiveness, and the maximum grant amount. CARL stores the factors (emission rates, caps, conversion factors, load factors etc.), source category forms, and the calculation algorithms used to calculate emission reductions and cost-effectiveness. CARL is also the reporting tool districts use to meet their annual reporting requirements. The database provides multiple staff the ability to view, update and add project information real time.

The Moyer program was established in 1998, and the CARL database became a required reporting tool in 2008. **Please note that CARL does not determine eligibility. It is the district's responsibility to determine eligibility under the terms of the Guidelines, though CARL is often used to support that effort.**

Basics of CARL

Getting Started with CARL

You will need a User ID and Password to access CARL. To obtain a User ID and Password, or to reset your password, ask your Moyer Program lead to send a request to carlhelp@arb.ca.gov.

Important Web Links and On-Line Documents:
- CARL Training Web Site: http://www.arb.ca.gov/app/cmp/training/index.php
- CARL Production Web Site : http://www.arb.ca.gov/app/cmp/index.php

For training, including further work in this Tutorial, we suggest you log into the CARL Training website. All practice and test projects should be entered into the Training tool, while all real projects should be entered into the Production tool.

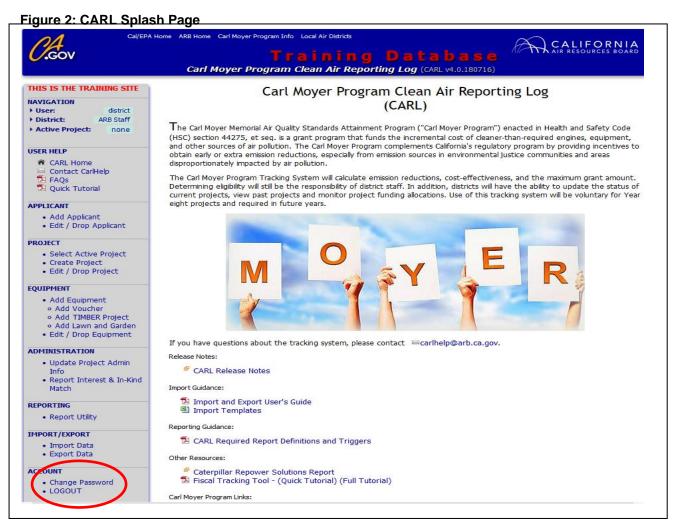**Login/Logout and Change Your Password:**

Click on the above links to go to either the Training or Production website, shown in Figure 1. Enter the User ID and Password you receive from CARL Help.

Figure 1: CARL log in page

A successful login will take you to the CARL Home Page, commonly referred to as the splash page, shown in Figure 2. The CARL splash page has useful links including a link to the Liaison and Source Category Experts contact information, Import and Export Guidance, and Reporting definitions. There are also quick links to the Carl Moyer Guidelines and the Moyer Administration forms.

Along the left margin of the CARL splash page is a gray bar with a series of links to different forms, reports and features. Once you log in you may change your password by clicking on the Change your Password link, circled in red in Figure 2. We recommend you choose a strong password with a mix of letters and numbers. For security purposes, always remember to log out after you are finished using CARL (Figure 2).

Figure 2: CARL Splash Page

The gray bar provides quick links to key tools such as Frequently Asked Questions, and CARL home, which will bring you back to the splash page. Information about the user and any active project ready for further entry is also provided at the top of the gray bar.

Data Entry Flow

The general data entry flow for CARL is illustrated in the pyramid shown in Figure 3 below. Users typically enter applicant information first, followed by the project data, equipment/engine data, and finally administration data. The equipment/engine forms are custom designed for the different source categories and they calculate the maximum grant amount, emission reductions and cost effectiveness. The non-calculation form is an exception as it does not do any calculations.

Figure 3: CARL Pyramid of Data Entry

The entry order (applicant, project, equipment, and administration) is the same for all projects you will enter, with a few exceptions. The exceptions, On-Road VIP, TIMBER, and Lawn and Garden, will be discussed further in the Equipment and Engine Forms section below.

Add and Edit Applicant and Project Information

Create New Applicant

You must first add applicant information by selecting the Add Applicant link on the gray bar. The Create a New Applicant form is illustrated in Figure 4. Note: If the applicant already exists in the database, skip ahead to add project data.

Figure 4: Create New Applicant

You can edit or drop applicant information for a previously entered applicant by selecting Edit/Drop Applicant under the Applicant Functions from the gray bar. You can filter and search for specific applicants by name or city, as shown in Figure 5: Query Applicant screenshot. The ability to Drop an applicant is limited to applicants that do not have associated projects. If an applicant has a project assigned to it, the user will get a pop-up stating that the applicant cannot be dropped.

Figure 5: Query Applicants

Tip: To sort a list alphabetically, simply click on the name of the column you want to sort. For example, to sort by city, click on City at the top of the column.

Create New Project

To add project information go to the Create Project link on the gray bar. A unique project number is required. When you select the guideline year from the pull-down there will be a list of possible guideline versions available. Note that the guideline version field will default to the most recent version.

Lastly, click on Select Applicant to navigate to the appropriate applicant. You can filter by applicant name, applicant city or simply select Query as shown in below Figure 6: Create New Project.

Figure 6: Create New Project

Edit Project

Although you can edit some project information using the Edit/Drop Project tool on the gray bar, you may not change the guideline year or guideline version of an existing project. Guideline versions may change emission factors, forms rudiments and calculation algorithms for equipment added to the project. If you need to update a project and equipment to a different guideline version without dropping and reentering the information, please contact carlhelp@arb.ca.gov for assistance.

Drop Project

When you drop a project, CARL will systematically drop all associated equipment, engines, and administration information reported for all equipment in the project. This is useful for on-road VIP and TIMBER projects where editing is limited by design. Users are not allowed to change calculation variables in the on-road VIP and TIMBER forms; however, users can drop and reenter the equipment using the drop project function.

Equipment and Engine Forms

Enter Equipment and Engine Information

When you press Continue on the Create New Project form you will be routed to a dynamic page which lists projects available in the Moyer program, as shown in Figure 7a. If Off-Road Equipment is selected, the added column shown in Figure 7b appears.

Figure 7a: List of Source Category Forms

Figure 7b: Off-Road Equipment

Source Categories:

There are numerous source category forms available in CARL. Below is a list of most source categories funded under the Moyer Program.

- ☐ On-Road: heavy duty diesel trucks.
- ☐ Off-Road: construction equipment; agricultural equipment including tractors and ag pumps; other off-road equipment.
- ☐ Marine: Replacement of engines on marine vessels.
- ☐ Locomotives: Replacement of engines on locomotives.
- ☐ Light duty vehicles: Voluntary accelerated vehicle retirement (VAVR).
- ☐ Infrastructure: Electric and alternative fuel infrastructure. *(Form Pending)*

Project Types:

Source categories can be further divided into one of five project types:

- ☐ Replacement: Replacement of the equipment and engine (i.e., cab, chassis)
- ☐ Repower: Replacement of an engine with a newer engine.
- ☐ Retrofit: Installation of a retrofit device (a diesel exhaust filter) on an engine.
- ☐ Vehicle Retirement: Scrap of an old vehicle or equipment such as a car or lawnmower.

Non-Calculation Form

For project types that do not fit in one of the established calculation forms, the non-calculation form may be chosen from the options shown in Figures 7a and 7b. The non-calculation form is a catch-all form that allows data entry without checks. It is a very long form with many fields. The non-calculation from does not do any calculations or factor lookup. Because it is difficult for the user to know what fields need to be populated to meet reporting requirements for a source category (some fields are shared while others are exclusive to a category), please check with your liaison or CARL help staff when using the non-calculation form.

On-Road VIP, TIMBER and Lawn and Garden Forms

The On-Road VIP, TIMBER and Lawn and Garden projects have streamlined data entry forms. These forms include applicant, project, equipment and administration fields on a single form. Fields within the forms are set up to populate key triggers automatically. The forms are accessed from the gray bar, via the Add Voucher, Add TIMBER and Add Lawn and Garden links shown under EQUIPMENT.

Add Equipment to Existing Project

To add additional equipment to an existing project, select Add Equipment under EQUIPMENT in the left-hand gray sidebar shown in Figure 8. You will need to browse to the project to which you want to add equipment.

Figure 8: Add Equipment Link

Active Project

You may make a project active with the Select Active Project link, under Project on the gray bar. This active project will now be indicated at the top of the gray bar, allowing you to go directly to the equipment and administration information within the project without having to browse to the project every time. You must Reset Active Project when you are ready to move on.

Calculations and Results

CARL will calculate emission reductions, cost-effectiveness, and the maximum grant amount. CARL does not determine eligibility, though it is a tool that can be used to help determine eligibility.

CARL includes a tiered cost-effectiveness approach that allows the Program to more effectively incentivize deployment of cleaner technologies under the 2017 Moyer Guidelines. In addition to a "One-Step" approach applicable to most conventional Moyer projects, a "Two-Step" approach has been implemented to support additional funding for projects providing the cleanest emerging technologies beyond regulatory requirements.

If you choose the Calculation Only button at the bottom of a form, CARL will show you the results without saving the data. In contrast, the Calculate & Save option saves the results and allows the user to update the maximum grant amount with the District Grant Amount, as shown in Figure 9a for One-Step and Figure 9b for Two-Step Calculate and Save Results.

Figure 9a: One- Step Calculate and Save Results

Project number: CARL123
Equipment identifier: CARBtest001

Based On 100 % Operation in California/Air District

	NOx	ROG	PM
Emission Factors (g/bhp-hr)			
Baseline (Load Factor: 0.38):	4.15	0.11	0.088
Reduced (Load Factor: 0.38):	0.26	0.05	0.009
Deterioration Product (g/bhp-hr)			
Baseline:	0.2850	0.1045	0.0219
Reduced:	0.0036	0.0110	0.0003
Emissions (tons/yr)			
Baseline:	0.08	0	0.002
Reduced:	0	0	0
Emission Reductions (tons/yr)	0.08	0	0.002
Percent Reduction:	94%	72%	92%

Calculated results may not add up due to rounding.

Based on Maximum Grant Amount

Weighted Cost-Effectiveness (\$/ton): 30000.00
Maximum Grant Amount: \$26594.11
Project Life (years): 8
Discount Rate (%): 1

THE MAXIMUM GRANT AMOUNT FROM THE PREVIOUS EDIT WAS **\$26594.11**

District Grant Amount currently saved: \$
District Grant Amount: \$ 26594.11

Save District Grant Amount

Show Calculations

Two - Step Calculation

Figure 9-b: Two-Step Calculate and Save Results

Step: 1					Step: 2				
Based On 100 % Operation in California/Air District					Based On 100 % Operation in California/Air District				
	NOx	**ROG**	**PM**			**NOx**	**ROG**	**PM**	
Emission Factors (g/mile)					Emission Factors (g/mile)				
Baseline:	11.66	0.49	0.267		Baseline:	1.76	0.13	0.004	
Reduced:	1.76	0.13	0.004		Reduced:	0.18	0.13	0.004	
Deterioration Product (g/mile)					Deterioration Product (g/mile)				
Baseline:	0.2058	0.0756	0.0172		Baseline:	0.0410	0.0011	0.0001	
Reduced:	0.0234	0.0006	0.0001		Reduced:	0.0042	0.0011	0.0001	
Emissions (tons/yr)					Emissions (tons/yr)				
Baseline:	0.04	0	0.001		Baseline:	0.01	0	0	
Reduced:	0.01	0	0		Reduced:	0	0	0	
Emission Reductions (tons/yr)	0.03	0	0.001		Emission Reductions (tons/yr)	0.01	0	0	
Percent Reduction:	85%	77%	99%		Percent Reduction:	90%	0%	0%	

Step 1:
Calculated results may not add up due to rounding.
Based on Maximum Grant Amount
Weighted Cost-Effectiveness ($/ton): 30000.00
Maximum Grant Amount: $6246.67
Project Life (years): 4
Discount Rate (%): 1

Step 2:
Calculated results may not add up due to rounding.
Based on Maximum Grant Amount
Weighted Cost-Effectiveness ($/ton): 100000.00
Maximum Grant Amount: $3588.30
Project Life (years): 7
Discount Rate (%): 1

Combined Maximum Grant Amount:	**$9834.97**
Overall Cost Effectiveness:	**$40925.82**

Save District Grant Amount

Save District Grant Amount is an import step in the data entry process. CARL will recalculate the cost-effectiveness of the project based on the grant amount, and will limit the amount of funding and payments that can be assigned to the project moving forward. The District Grant Amount cannot be more than the CARL calculated Maximum Grant Amount. You must save the District Grant Amount to be able to move onto the next section and fund the equipment.

Show Calculations

The Show Calculations feature, seen in Figure 10, shows the user the calculations CARL performed to generate the emission reductions, cost-effectiveness and maximum grant amount. Information shown includes emission rates, load factors, conversion factors, cost percentages used for incremental cost, and the cost-effectiveness and capital recovery factor calculations that were used for the project.

Figure 10: CARL Calculations

```
Total emission reduction
 = (baseline NOX - reduced NOX) +
  (baseline ROG - reduced ROG, if both ROG factors were found) +
   20 * (baseline PM - reduced PM)
  = (0.0812741 - 0.00483063) + (0.00393084 - 0.00111786) + 20 * (0.00201399 - 0.000170428)
 = 0.11612760416667 tons

 Equipment set total reduction = 0.11612760416667 tons

Incremental cost
 = (Equipment Cost Percentage/100%) * (reduced equipment cost)
 = (80%/100%) * ($250000.00)
 = $200000.00

The incremental cost was adjusted by 80% according to the equipment category.

Capital recovery factor
 = (1 + Discount Rate) ^ Project Life * Discount Rate / ((1 + Discount Rate) ^ Project Life - 1)
 = (1.01 ^ 8 * 0.01 / (1.01 ^ 8) - 1)
 = 0.13069029204332
 = 0.131 after rounding to three decimal places.

Cost effectiveness
 = capital recovery factor * incremental cost / total reduction
 = 0.131 * $200000.00 / 0.11612760416667 tons
 = $225613.88558742 /ton
 = $30000.00 /ton (rounded to two decimal places)
```

Administration Information

For most project types the next step is entry of administration information. Administration information has to be entered for an equipment to appear in reports and count toward expenditure progress. As mentioned above, administrative information for voucher, TIMBER, and lawn-and-garden projects is entered directly into those forms rather than through the administration pages described below.

First Administration Page

As shown in Figure 11, the first question relates to whether the project will reduce pollution in communities with the most significant exposure to air pollution, as required for 50 percent of Moyer funds in large districts by AB 1390 (Statutes of 2001). Other districts may select "yes" if environmental justice criteria are applied to their local Moyer projects, or "no" if that determination has not been made. A choice of "yes" or "no" is required, as the statute has a bearing on most projects statewide.

Funding of projects and equipment requires an executed contract date. The user must enter a Fully-executed Contract Date or Commitment Date on the first administration page, also shown in Figure 11. Note the pull-down at the bottom left that allows you to select specific equipment within a project if there is more than one.

Figure 11: First Administration Page

Second Administration Page:

Users record funding and payment information on the second administration page. You must designate a funding source, funding amount and funding year for the project to appear in any of the reports available in the report utility. This is also where you report the **post-inspection** date and toggle on the **paid-in-full** field necessary to expend and liquidate the project. The three sections available on the second administration page, shown in Figure 12, represent funding, payment and withholding information:

- Funding Information represents funds reserved for an equipment. The user must report the amount of funds, the funding source(s) and funding year(s) assigned to an equipment for reporting purposes. An equipment with multiple funding sources or years is called "split funded." The funding amount entered here cannot exceed the Grant Amount entered on the first admin page and shown on the second.

- Payment Information is the amount paid on the equipment. Again, the user must designate the amount, source and year of funds, but in this case the payment must have a date. As with funding, the user may enter multiple payments. The paid amount for each funding source and year
- Cannot exceed the funding amount entered above it.

- Withholding Information is a place holder for districts to report funds withheld from a project. Sometimes districts withhold funds until the end of the contract term. This is the place to report those funds and include a comment. Withheld funds are included in the liquidated amount.

Figure 12: Second Administration Page

Funding, Payments, and Withholds

Equipment Grant Amount: 21250.00
Equipment Identifier: Excavator-1
Post-Inspection Conducted: 02/17/2015   (MM/DD/YYYY)

Funding Information
[Add Funding] [Remove]
1. District: ARB Staff   Funding Year: 14
Funding Source: Moyer   Funding Amount: $18000

2. District: ARB Staff   Funding Year: 13
Funding Source: Moyer interest   Funding Amount: $500

Total Amount Funded: $18500.00

Payment Information
[Add Payment] [Remove]
1. District: ARB Staff
Payment (date): 02/18/2015 (MM/DD/YYYY)   Amount Paid: $18000
Funding Source: Moyer   Funding Year: 14

2. District: ARB Staff
Payment (date): 02/18/2015 (MM/DD/YYYY)   Amount Paid: $500
Funding Source: Moyer interest   Funding Year: 13

Total Amount Paid: $18500.00

Paid In Full: Yes ⦿ No ○

Withholding Information
[Add Withholding] [Remove]
Total Amount Withheld: $

Comments: (Up to 4000 characters)

[Submit] [Reset]

Interest and Match In-Kind Forms

To report interest and match in-kind, select the Report Interest and In-Kind Match function located under Administration in the gray bar. Users are walked through the steps to report Interest and Match In-Kind as discussed in the Guidelines.

Figure 13 shows the form to report Interest and Figure 14 shows the form to report Match in-Kind.

Figure 13: Report Interest

Figure 14: Report Match In-Kind

Report Utility

The Report Utility provides a series of report and query tools that allows the user to view and summarize data in CARL. You access the Report Utility from the left-hand gray bar. The tabs across the top include the Required Reports, Project Report, Query Tool, and Funding and Allocations, illustrated in Figure 15 below.

Figure 15: Report Utility Front Page

Display or Download Data

You may display the report in CARL or download it to view in Microsoft Excel. To download the data use the Generate CSV button at the bottom of the form that can be seen in Figure 15.

Required Reports

The Required Reports are designed to meet yearly reporting and progress tracking requirements. Available here are the Cumulative Report and the Liquidation Report. These Required Reports use milestone dates, triggers, and funding and payment information to determine the status of projects to be included in report outputs. For a detailed description of the data summarized in the Required Reports, see the "Definitions and Triggers for CARL Cumulative and Liquidation Reports" document posted on the CARL splash page.

The Required Reports default the funding start and end years to what is required for the current reporting cycle. These default years are updated annually, though the user has some flexibility to adjust them. There are three tables in the Cumulative Report shown in Figure 16:

- ☐ Table 1: Summary Table provides the sum of executed, expended and liquidated funds by funding year and funding source, as well as the targets by fund source and year.
- ☐ Table 2: Progress Tracking shows calculated progress towards key fiscal program milestones.

☐ Table 3: Funding Year Progress Milestones shows fund execution and liquidation progress toward the program milestones identified in Table 3-5 of the 2017 Moyer Guidelines.

☐ Table 4: Project Information Table lists project level information. This table sums the funding and payment amounts and concatenates the funding years and sources to display the data by project, rather than by equipment. To see detailed equipment and administration information select the Cumulative Report Detailed Information (not required) toggle, shown in Figure 15 and described below.

Figure 16: Cumulative Report Tables

CARL Moyer Memorial Air Quality Standards Attainment Program
DISTRICT YEARLY REPORT
Cumulative Tracking Report
Lassen County APCD Funding Year 18

Table 1: Summary Table

District	Funding Source	Year	TARGET	Executed Funds	Expended Funds	Liquidated Funds	Total Funds (Executed + Expended + Liquidated)	Difference (Total Funds - Target)
Lassen County APCD	Moyer	17	$180,000.00	$0.00	$0.00	$180,000.00	$180,000.00	$0.00
Lassen County APCD	RAP	17	$27,059.30	$0.00	$0.00	$0.00	$0.00	($27,059.30)
Lassen County APCD	Moyer Interest	17	$295.23	$0.00	$0.00	$295.23	$295.23	$0.00
Lassen County APCD	Moyer	18	$180,000.00	$29,562.00	$0.00	$107,646.84	$137,208.84	($42,791.16)
Lassen County APCD	Moyer Interest	18	$666.40	$0.00	$0.00	$0.00	$0.00	($666.40)
Lassen County APCD	Moyer	19	$175,000.00	$0.00	$0.00	$0.00	$0.00	($175,000.00)
Lassen County APCD	Moyer Interest	19	$2,234.54	$0.00	$0.00	$0.00	$0.00	($2,234.54)
Total			**$565,255.47**	**$29,562.00**	**$0.00**	**$287,942.07**	**$317,504.07**	

Table 2: Progress Tracking Table

Progress To Date	
Year 18 Executed Funds Progress [1]	75.95%
Year 18 Executed Funds Balance [2]	($43,457.56)
Year 18 Expended Funds Balance [3]	($100,078.86)
Year 17 Liquidated Funds Progress [4]	138.86%
Year 17 Liquidated Funds Balance [5]	($27,059.30)

[1] Year 18 and later funds executed, expended or liquidated divided by the total Year 18 target, expressed as a percentage.

[2] Sum of Year 18 funds executed, expended or liquidated minus the sum of Year 18 targets.

[3] Sum of Year 17 and later expended and liquidated funds minus the sum of Years 17 and 18 targets. If Year 18 grant agreements have not been amended to remove the expenditure deadline, funds shown as a negative number in parentheses are subject to return if not already under contract.

[4] Year 17 and later funds liquidated divided by the total Year 17 target, expressed as a percentage.

[5] Sum of Year 17 funds liquidated minus the sum of Year 17 targets.

Table 3: Funding Year Progress Milestones

Fiscal Year	Moyer Funding Year	Funds Milestone (%)	District Progress (%)
2016-17	Year19	50% of project funds under executed contract	0.00%
2015-16	Year18	100% of project funds under executed contract	100.00%
		50% of project funds liquidated	78.45%
2014-15	Year17	75% of project funds liquidated	100.00%

Table 4: Project Information (Funding Years 17 - 20)

District	Project Title	Project Number	Equipment Category	Funded Engines	Emission Reductions Units(tons/yr) NOx	RDG	PM	Funding Year	Funding Source	Project Amount	Status
Lassen County APCD	Sacred Heart Ranch Pump	18-17-CMP-05	Stationary and Portable Agricultural Engines	1	0.11	0.04	0.01	18	Moyer	$29,562.00	Executed
Lassen County APCD	Richard Lewis Tractor	18-16-CMP-08	Off-Road Equipment – Mobile Agricultural	1	0.77	0.09	0.032	17	Moyer	$7,942.07	Liquidated
Lassen County APCD	David Chaidez Tractor Replace	18-17-CMP-03	Off-Road Equipment – Mobile Agricultural	1	0.15	0.03	0.014	17	Moyer	$35,000.00	Liquidated

Cumulative Report Detailed Information (not required):

The Cumulative Report Detailed Information output provides a breakdown of project information by equipment and administration details. This report shows payments and funding entries by equipment.

Query Tool

The Query Tool allows you to see all the funded equipment in the database. Some equipment are omitted from the required reports such as equipment funded with non-match or with pre-Year 13 interest; these equipment are visible in the Query tool. The Query tool also shows the contract execution date, post-inspection date, paid-in-full status and the project status of executed, expended and liquidated equipment. The query tool does not show the paid or withheld amounts, but displays funding amounts. Users are able to filter the data based on several variables such as funding year and source category, as illustrated in Figure 17: Query Tool Filters.

Figure 17: Query Tool Filters

The Query Tool shows the itemized equipment funding amounts by funding source, year and amount, whereas the Required Reports sums it up by project. As a result, equipment that are split funded (funded with more than one funding year or source) are listed multiple times in the query tool; an example is shown in Figure 18: Query Tool Output. That means their emission reductions and number of engines are also listed multiple times. The user must resolve duplication to sum emissions or engine totals.

Figure 18: Query Tool Output

Project				Equipment						Paid In Full	Emission Reductions Based on Operation in (CA)			Milestone Date	
Title	Number	Report Status	Guideline Year	Identifier	Type	Source Category	Technology	Funded Engines	Project Life		NOx (tons/yr)	ROG (tons/yr)	PM (tons/yr)	Commitment	Contract Execution
Training - Offroad Repower	ARBtest001	Liquidated	2011	Excavator-1	EX	Off-Road Equipment - Construction	Repower	1	7	Y	0.4876	0.0896	0.0323	02/16/2015	02/16/2015
Training - Offroad Repower	ARBtest001	Liquidated	2011	Excavator-1	EX	Off-Road Equipment - Construction	Repower	1	7	Y	0.4876	0.0896	0.0323	02/16/2015	02/16/2015
Yr13-DanaWharfSportfishing-Mar	12190	Liquidated	2011	1FUPCSEB1YDB06565	HH	On-Road Voucher Incentive Program	Voucher	1	3	Y	0.7000	0.0130	0.0000	10/07/2011	01/27/2012
										Total	1.6751	0.1923	0.0645		

use without checking with CARL Help.

Project Report

The Project Report provides a summary of a specific project. To get a project report, use the Project Report tab and select your project from the drop-down, as displayed in the Figure 19: Select Project Report. The report outputs a PDF file of key project, equipment and engine information, including details like horsepower, engine model year and emission factors, as shown in Figure 20: Project Report Output.
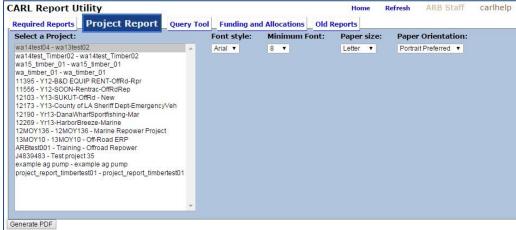
Figure 19: Select Project Report

CARL Report Utility   Home   Refresh   ARB Staff   carlhelp

Required Reports | **Project Report** | Query Tool | Funding and Allocations | Old Reports

Select a Project:

	Font style:	Minimum Font:	Paper size:	Paper Orientation:
	Arial ▾	8 ▾	Letter ▾	Portrait Preferred ▾

wa14test04 - wa13test02
wa14test_Timber02 - wa14test_Timber02
wa15_timber_01 - wa15_timber_01
wa_timber_01 - wa_timber_01
11395 - Y12-B&D EQUIP RENT-OffRd-Rpr
11556 - Y12-SOON-Rentrac-OffRdRep
12103 - Y13-SUKUT-OffRd - New
12173 - Y13-County of LA Sheriff Dept-EmergencyVeh
12190 - Yr13-DanaWharfSportfishing-Mar
12269 - Yr13-HarborBreeze-Marine
12MOY136 - 12MOY136 - Marine Repower Project
13MOY10 - 13MOY10 - Off-Road ERP
ARBtest001 - Training - Offroad Repower
J4839483 - Test project 35
example ag pump - example ag pump
project_report_timbertest01 - project_report_timbertest01

Generate PDF

Figure 20: Project Report Output

Ag Pump Repower to Electric

Description	Equipment #1
Project type:	Stationary/Portable Agricultural Equipment Repower
Equipment type:	Stationary Agricultural Irrigation Pump
Equipment Baseline/Reduced:	reduced
Equipment Number:	1
Identifier:	01-002-2006
Number of Equipment:	1
Percent Operation in Eastern Kern APCD:	100%
Percent Operation in CA:	100%
Project Life:	5 years
Engine Location or Type:	Main Engine
Baseline Engine Model Year:	1985
Baseline Engine fuel:	Diesel
Annual hours operated:	1500
Baseline Engine (make, model):	John Deere / Deere & Co.
Baseline Engine Horsepower Rating:	233
Baseline Engine Load Factor:	0.65
Baseline NOx Emission Factor:	10.23 g/bhp-hr
Baseline ROG Emission Factor:	1.01 g/bhp-hr
Baseline PM Emission Factor:	0.396 g/bhp-hr
*Baseline NOx emissions (tons/yr):	2.562
*Baseline ROG emissions (tons/yr):	0.253
*Baseline PM emissions (tons/yr):	0.099
Reduced Engine Model Year:	2006

Funding and Allocation

Funding and Allocations will give information about a district's allocations. When you report interest and in-kind contributions it will also become visible in this report. The report provides a breakdown by funding year, funding source and displays the project amount, administration amount in separate columns. Figure 21 shows the report filters and Figure 22 shows the report outputs.
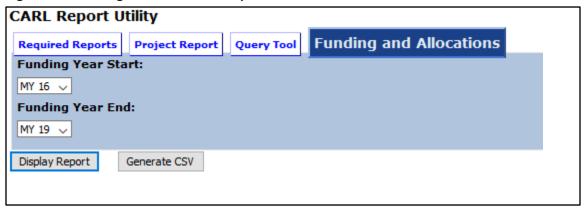
Figure 21: Funding and Allocation Report

CARL Report Utility

Required Reports	Project Report	Query Tool	**Funding and Allocations**

Funding Year Start:

MY 16 ∨

Funding Year End:

MY 19 ∨

Display Report   Generate CSV

Figure 22: Funding and Allocation Report

District	Funding Year	Funding Source	Transaction Type	Project Allocation	Administrative Funds	In-Kind Contribution	Totals
ARB Staff	16	Moyer Interest	REPORT	$2,456.23	$0.00	$0.00	$2,456.23
ARB Staff	16	Match	ALLOCATE	$46,017.00	$0.00	$0.00	$46,017.00
ARB Staff	16	Match	ALLOCATE	$39,117.00	$0.00	$6,950.00	$46,067.00
ARB Staff	16	RAP	REDIRECT	$12,847.75	$0.00	$0.00	$12,847.75
ARB Staff	16	RAP	REDIRECT	($12,847.75)	$0.00	$0.00	($12,847.75)
ARB Staff	17	Moyer Interest	REPORT	$2,456.23	$0.00	$0.00	$2,456.23
ARB Staff	18	Moyer Interest	REPORT	$9,980.00	$90.00	$0.00	$10,070.00
ARB Staff	19	Moyer Interest	REPORT	$45,000.00	$414.00	$0.00	$45,414.00
ARB Staff	19	Moyer Interest	REPORT	$45,000.00	$5,625.00	$0.00	$50,625.00
			Totals	**$190,026.46**	**$6,129.00**	**$6,950.00**	**$203,105.46**

Import and Export Data

For information on the Import and Export function, please see the Import Guidance on the CARL splash page.

Conclusion

Districts have been successfully reporting into the CARL database since 2008. The database is supported by a team of staff that are available for help and training. If you have any questions or suggestions, please do not hesitate to contact the CARL team at carlhelp@arb.ca.gov.